REQUEST FOR INFORMATION (RFI)/ SOURCES SOUGHT

Solicitation Number: 89303320REM000078

Title: ENERGY TECHNOLOGY ENGINEERING CENTER (ETEC) MISSION COMPLETION ACQUISITION

THIS IS NOT A REQUEST FOR QUOTE OR PROPOSAL. THIS IS A REQUEST FOR INFORMATION (RFI) ONLY.

No solicitation is available. This RFI/Sources Sought is released pursuant to FAR 15.201(e), *Exchanges with Industry Before Receipt of Proposals*, and is issued for the purpose of conducting market research.

The U.S. Department of Energy (DOE), Office of Environmental Management (EM), is currently in the acquisition planning stage for the Energy Technology Engineering Center (ETEC) Mission Completion acquisition at the Santa Susana Field Laboratory located in eastern Ventura County, California. The site is comprised of four discrete operational areas with two adjacent undeveloped properties.

The purpose of this potential end state contract is to achieve significant reduction in financial risk and environmental liability that provides the best overall optimal solution towards completion of the DOE-EM mission at ETEC by accomplishing the maximum amount of environmental cleanup in the least amount of time and at the best value to the U.S. taxpayer. DOE is seeking innovative risk-based End State approaches for completing cleanup activities in a safe, compliant, and efficient manner resulting in an accelerated reduction of risk and environmental liability. The term "End State" is defined as the specified situation at the successful completion of the final phase of an environmental cleanup activity.

The majority of EM's cleanup work at ETEC is driven by the following regulatory compliance agreements. In 2007, The State of California Environmental Protection Agency Department of Toxic Substances Control (DTSC) entered into a Consent Order with the Department of Energy (DOE), National Aeronautics and Space Administration (NASA), and Boeing under its Resource Conservation and Recovery Act (RCRA) authority. This authority governs environmental remediation and waste disposition program, and establishes the foundation for timely remediation of chemically contaminated soils at Santa Susana Field Laboratory (SSFL).

In 2010, the DTSC then entered into an Administrative Order on Consent (AOC), Health and Safety Code Sections 2555.5(a)(1)(B), 58009 and 58010, to define the process for characterization and the cleanup end-state (to background for soils) for DOE's responsibilities for Area IV and the Northern Buffer Zone at the Santa Susana Field Laboratory (SSFL). While the 2010 Order does not alter provisions in place for groundwater remediation, the 2010 Order as well as the 2007 Order provide the option for DTSC to require more work to be conducted offsite from Area IV to assess air, soil and groundwater contamination. DTSC must prepare an Environmental Impact Report (EIR) in accordance with the California Environmental Quality Act (CEQA).

In 2018, in accordance with the National Environmental Policy Act (NEPA) DOE published a Final EIS (FEIS). In 2019, DOE published a Record of Decision (ROD) for Building Demolition. Records of Decision have not been issued for soil and groundwater remediation.

The Major Elements of Scope have been identified in Attachment A. The various Major Elements of Scope have descriptive statements of DOE's "desired outcome" associated with the performance of each element. That "desired outcome" statement is intended to provide the Contractor with insight regarding DOE's perspective on the objectives that need to be accomplished in order to accelerate completion of the EM ETEC cleanup.

This RFI solicits input via capability statements from potential Offerors that have specialized capabilities necessary to meet all of the major elements of scope for the upcoming competitive procurement. Within these capability statements, DOE is seeking feedback from contractors and other interested parties regarding end state options for innovative approaches for the performance of the Major Elements of Scope as well as insight into potential contracting alternatives. DOE will use the results of this market research to identify interested and capable sources and develop its acquisition strategy. Key market research goals include identifying and minimizing barriers to competition, evaluating small business capabilities, identifying risks, identifying potential requirements definitions and contract alternatives, and identifying appropriate terms and conditions. This contract is intended to align with the current EM end state contract model; however, the contract type, period of performance, amount of funding, and set-aside possibilities will be determined through the acquisition planning process and this market research. The current ETEC contract expires on September 30, 2021.

The DOE Environmental Management Consolidated Business Center (EMCBC) has created a procurement website providing additional information which may be viewed at https://www.emcbc.doe.gov/seb/etec_mission_completion

Information posted on the EMCBC website will be updated as it becomes available; therefore interested parties should continuously monitor the EMCBC website for additional information. DOE will not respond to or post on the EMCBC website any written or verbal questions or comments pertaining to the RFI package. However, the comments will be considered when preparing the acquisition plan and any resulting Request for Proposal that may be issued for this requirement.

DOE will determine whether or not the requirements can be set-aside for small businesses, 8(a) small businesses, small disadvantaged businesse, economically disadvantaged women-owned small businesses, women-owned small businesses, HUBZone small businesses, veteran-owned small businesses, or service-disabled veteran-owned small businesses. Small businesses believing that they have the capability to perform all or a portion of the work in the draft Major Elements of Scope are encouraged to demonstrate such capabilities by submitting a capability statement in accordance with the instructions below. Information provided in response to this RFI will also help shape small business subcontracting requirements if a small business set-aside is not feasible. The North American Industry Classification System (NAICS) code for this requirement is anticipated to be 562910, Environmental Remediation Services, and the small business size standard is 750 employees.

All interested parties are hereby invited to submit a capability statement of no more than 15 pages with no smaller than 12 point font. Also, electronic file submissions must be less than 20 Megabytes. The Government will evaluate each capability statement based on the interested parties' demonstrated qualifications, capabilities, expertise and past performance in each of the Major Elements of Scope. More specifically, capability statements should include the following information as appropriate and as applicable:

- 1) Describe your ability to perform the draft Major Elements of Scope elements identified. Also, for each member of a teaming arrangement and/or teaming subcontractors, identify no more than three (3) DOE, other Government, and/or commercial contracts relevant to this sources sought (include contract number, role in the effort (i.e., prime contractor or subcontractor), date, scope, duration, client, and contracting agency contact information).
- 2) Identify any technical and/or performance challenges and risks in meeting the requirements discussed in the Major Elements of Scope. Identify how your organization would maximize the probability of successful performance. DOE is interested in cutting-edge thinking, innovativeness, and other ways for DOE to maximize the probability of successfully and safely performing the work.
- 3) Discuss your company and/or teaming arrangement's relevant experience in managing and integrating the elements of the draft Major Elements of Scope under a single contract. Also, describe your experience in managing and integrating the work of subcontractors who would perform specialty functions. Further, provide input regarding ways to identify meaningful work to be accomplished by small businesses.
- 4) Describe your experience in a complex regulatory environment in respect to problem solving, working with various stakeholders, Citizens Advisory Boards, and regulatory agencies at the state and federal level.
- 5) As previously stated, DOE is seeking innovative End State solutions that achieve a reduction in risk and environmental liability, while also providing for accelerated cleanup. Therefore, provide information on potential End State solution(s) for the prospective procurement, including, but not limited to: representative discriminating work scope areas, optimal period of performance/timelines, key assumptions, risks and/or challenges associated with the identified potential End State solution(s), and any efficiencies that could be gained where requirements may be redundant and/or overly burdensome.
- 6) Highlight any factors that would make competing for this contract desirable or undesirable for your firm, including fee structure and input on proposal evaluation criteria. Discuss any issues that DOE should consider when developing the solicitation for this requirement. In addition, please identify and describe any areas in the Major Elements of Scope believed to be missing or in need of clarification.
- 7) Identify any Organizational Conflicts of Interest (OCI) concerns and/or potential OCI's that you or your teaming partners may have pertaining to the work described in this RFI.

Interested parties are requested to provide name of firm, or firms if a teaming arrangement, as defined in FAR 9.601(1), is being contemplated, point of contact, phone number, address of firm, socio-economic status, CAGE Code, and/or a DUNS Number(s) used over the past 5 years for the prime and each contemplated teaming partner. All teams or joint ventures shall identify the socio-economic status of each member and shall provide the capabilities of each member, as well as a description of the work that each member would perform under a contract. Identify as one or more of the following under NAICS code 562910, Environmental Remediation Services: 1) small business; 2) 8(a) business (including graduation date); 3) HUBZone small business; 4) small disadvantaged business; 5) woman-owned small business; 6) economically disadvantaged women-owned small businesses 7) service-disabled, veteran-owned small business; 8) veteran-owned small businesses or 9) large business.

DOE reserves the right to use any or all information submitted by, or obtained from, an interested party in any manner DOE determines is appropriate, including, but not limited to, the creation of a competitive solicitation. An interested party shall not include any classified, business confidential and/or proprietary information in its response.

The Government will not pay for any information that is provided in response to this announcement nor will it compensate any respondents for the development of such information. All capability statements and questions pertaining to this announcement shall be submitted electronically to matthew.carpenter@emcbc.doe.gov no later than 3:00PM EST on September 3, 2020. DOE personnel may contact firms responding to this announcement to clarify a responder's capabilities and other matters as part of this market research process.

THIS RFI IS NOT A REQUEST FOR PROPOSALS (RFP) AND SHALL NOT BE CONSTRUED AS A COMMITMENT BY THE GOVERNMENT TO AWARD A CONTRACT.

Contracting Officer:
Mr. Matthew Carpenter
513-744-0974
matthew.carpenter@emcbc.doe.gov

ATTACHMENT A

MAJOR ELEMENTS OF SCOPE

Task Order Management

The desired outcome is to adopt incumbent programs and implementing procedures where applicable, provide personnel and resources for management and control Task Order (TO) activities maintaining compliance with site-wide agreements and requirements. Task Order Management includes, but is not limited to, scoping, planning, estimating, executing, tracking, controlling, reporting, analyzing, and closure of the TO. Management performance is measured based on planning, controlling, and closing task deliverables.

The Contractor may adopt the incumbent Contractor's procedures provided the Contractor has formally reviewed them to ensure compliance with TO requirements, current regulatory requirements, Department of Energy (DOE) directives, and the Contractor's organizational roles and responsibilities. Revisions to incumbent Contractor procedures will be managed through a formal, DOE-approved, procedure revision control, or document control, process.

The desired outcome for Task Order Management during the period of performance includes the following:

- Implement a management system, accurately recording and reporting performance
 against requirements of the TO, including costs against price in Section B of the Contract.
 Reporting shall be consistent with DOE directives, and Environmental Management
 (EM) policies and guidance, and completed according to requirements specified in the
 TO.
- 2. Establish and report performance milestones, schedules, and percentage of TO completion when requested by the designated Contracting Officer Representative (COR).
- 3. Implement performance measurement principles, identify, and report potential risks to the COR relating to achievement of schedule and technical performance objectives.

Surveillance and Maintenance

The desired outcome is to manage land and facilities under the control of DOE in accordance with applicable DOE directives, state regulations, and site requirements, until final disposition. These activities include routine operations, predictive, preventive and corrective maintenance, and infrastructure activities needed to support Energy Technology Engineering Center (ETEC) facilities, and any facility activities, including closed areas, remediated areas, capped areas (e.g., landfill), open areas, etc.

Tasks may be developed for maintaining an area safety envelope. The desired outcome includes periodic inspection of inactive areas, maintenance of silt fencing, reseeding, and other erosion control measures, until re-vegetation occurs. Tasks may also include performing surveillance, monitoring, and maintenance of areas, including repair and replacement of erosion controls,

regrading and consolidation of soil piles, reseeding, and mulch installation to manage run-on and run-off.

The desired outcome for the Surveillance and Maintenance program during the period of performance includes the following:

Inspection requirements

Prepare a post Decontamination and Demolition (D&D) monitoring plan to ensure the site remains safe. The plan shall be reviewed and approved by DOE and the State of California Department of Toxic Substances Control (DTSC), and shall include discussion of final site configuration as addressed in the 2010 DTSC Administrative Order on Consent (AOC). Additionally, it shall provide descriptions for periodic inspection and monitoring, maintenance of barriers to prevent intrusion, and prevention of activities that might impair those barriers.

Inspections may include:

- 1. Safety assessments performed consistent with the ETEC Integrated Safety Management System (ISMS) Plan.
- 2. Bi-weekly inspections of Resource Conservation and Recovery Act (RCRA) permitted facilities (Radioactive Materials Handling Facility (RMHF) and Hazardous Waste Management Facility (HWMF)), per the RCRA Part A permit requirements and HWMF Closure Plan.
- 3. Weekly inspections of the baseline air monitoring program for the air monitoring systems and analysis of the data collected.
- 4. Routine and regular visual inspections of all DOE-owned facilities/land, supporting maintenance of existing safety envelope requirements and to ensure, at a minimum, any contamination is adequately contained, and potential hazards to workers, the public, and the environment are eliminated or mitigated and controlled.

Maintenance and Infrastructure Support

Provide resources associated with development and maintaining ETEC infrastructure and property ownership. This includes overhead elements such as insurance, interest, fees, rent, warehousing, building maintenance, and equipment maintenance required to implement environmental programs.

Perform maintenance of all remaining DOE-owned facilities/land, including the provision of utilities and infrastructure support as follows:

- 1. Establish a local utility account, including metering, to provide electrical service for Contractor activities.
- 2. Perform maintenance activities consisting of repairs, if necessary, for safety, facility/area security and protection of government property. Maintenance activities may include minor repairs, pest control, fencing/boundary repair/replacement, and nuisance wildlife removal.
- 3. Maintain all facilities/land, ensuring they remain in a safe shutdown mode and in a safe and stable configuration.

4. Perform necessary road maintenance as related to the performance of this element is limited to minor pothole/patch repairs, tarring of cracks and weed removal within the RMHF footprint.

Remediation and Monitoring Activities

Upon approval of a soils/groundwater Record of Decision (ROD), subsequent tasks may be developed from the Final Environmental Impact Statement (FEIS), and/or the document entitled, *Santa Susana Field Laboratory Remediation: Biological Assessment*, January 2018. These tasks may include bioremediation, land treatment, natural attenuation, phytoremediation, and/or installation of other treatment systems.

The FEIS proposed actions include remediate chemically and radiologically impacted soil in Area IV and the Northern Buffer Zone (NBZ); remediate groundwater in Area IV and the NBZ; dispose of resulting material; and restore the affected environment in accordance with applicable laws, directives, regulations, and agreements with the State of California.

The desired outcome for this end state is remediated soil, or water, satisfying regulatory requirements identified in the DTSC AOC. The desired outcome enables transfer of remediated areas to Surveillance and Maintenance (S&M) and reuse.

The desired outcome for Remediation and Monitoring Activities during the period of performance includes the following:

General Environmental Monitoring Activities

Develop, perform, and maintain an environmental monitoring, analysis, and assessment program in accordance with TO requirements. The program shall provide for effluent monitoring, environmental surveillance, and monitoring for erosion in areas having potential to affect the ETEC or site, whether or not those areas are located on or off the premises. Area monitoring includes remote monitoring, air monitoring, groundwater monitoring, alarm systems, survey monitoring, and special case area monitoring. Monitoring and surveillance includes both the continuous recording of data and the collecting of soil, sediment, water, air, and other samples at specific times. Further, the Contractor may be required to install additional or modify existing monitoring locations as required or requested by DOE.

Provide an environmental monitoring program to continue all environmental monitoring underway within Area IV, including:

General Environmental Monitoring Activities Other Than Building 4024

1. Conduct and document quarterly radiation level monitoring in accordance with DOE O 458.1 Chg 3 (Admin Chg), *Radiation Protection of the Public and the Environment*, Authorized Limits approval documentation for Area IV for RMHF. The required radiation detection location of air sampling units can be found in the 2019 Annual Site Environmental Report (ASER) for DOE Operations at Santa Susana Field Laboratory (SSFL).

- a. Preparing the ASER in accordance with DOE O 231.1B, Environmental, Safety and Health Reporting.
- 2. Perform Air filter screening during development of the annual National Emissions Standards for Hazardous Air Pollutants (NESHAP) report and reporting in the ASER.
 - a. A radiological air-monitoring program will be developed and maintained in Area IV of SSFL. The radiological program includes ambient air sampling performed continuously as follows: (1) weekly sampling cycle for two locations, the 4024 and the RMHF facility next to Building 4034; and (2) quarterly dosimeter sampling cycle for nine other locations documented in Table 5-1 of Section 5.2, *Environmental Sampling*, of the 2019 ASER. Results of this radiological air-monitoring program shall be reported in the ASER. Monitoring of airborne particulate radioactivity will be performed through collection of filters changed weekly. The samples shall be analyzed for gross alpha and beta activity. In addition, on-site and off-site ambient radiation dosimeters shall be monitored quarterly. Results of this monitoring shall also be reported in the ASER.

Groundwater Management at Building 4024

Perform sampling consistent with the requirements of the Site-wide Water Quality Sampling and Analysis Plan (WQSAP), before off-site disposal.

Perform the gamma spectroscopy analysis, interpretation, reporting of results, and release of the water for offsite disposal, using an off-site laboratory for this analysis. Based on the results of the water sample, disposition the water to an appropriate off-site permitted facility that receives and treats the processed water.

Groundwater Monitoring Activities

Coordinate, plan, and implement groundwater activities consistent with the Groundwater Remediation Strategy. This may include, but is not limited to, additional groundwater modeling, monitoring, Ground Water Interim Measures (GWIM), and analysis of the fate and transport modeling of plumes in Area IV that are DOE responsibilities. Conduct environmental monitoring and reporting in support of emergency response activities.

This element includes the investigation of site hydrogeological characteristics such as gradient, depth and size of the water table, permeability or porosity, flow direction, well drawdown, and related activities. Additionally, this element may include investigation of the site hydrogeological characteristics such as flow, velocity, depth and size of the water body, flow direction, water source, and related activities. Mechanisms for investigation include tidal influence studies, elevation measurements, field surveys, pump tests, groundwater elevation measurements, and other tests.

1. Perform environmental monitoring activities for groundwater in compliance with applicable DOE directives and all other applicable federal, state and local regulations and requirements, including the RCRA corrective action process with DTSC as the lead agency for Area IV and the NBZ.

- 2. Develop Storm Water Pollution Prevention Plans (SWPPs) for construction areas greater than one acre in size as required by the National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated with Construction Activity (General Permit) Water Quality Order 99-08 DWQ. The SWPPP Notice of Intent shall be filed with the State Water Quality Control Board.
- 3. Provide necessary groundwater sampling supplies (generators, non-dedicated sample pumps, etc.). Ensure a California certified laboratory performs the analyses required for groundwater monitoring.
- 4. Maintain structural integrity and operability of DOE groundwater wells within Area IV and the NBZ. Well maintenance includes, but is not limited to:
 - a. repairing and replacing pumps
 - b. replacing broken concrete pads surrounding the wells
 - c. repairing, replacing, and/or extending the outer protective steel casings
 - d. repairing, replacing, and installing vehicle guard posts around the well
 - e. repairing and replacing casing covers, lock hasps, and hinges on outer protective casings
 - f. drilling weep holes in the outer protective casing
 - g. painting the outside of the outer protective casings, as required
- 5. Deliver quarterly water level monitoring data (in the form of a letter submittal) which will subsequently be delivered to the regulators. Deliver an annual compilation and discussion of groundwater monitoring data, which shall constitute the DOE portion of the groundwater annual report that will subsequently be submitted to DTSC. Compile the quarterly water level monitoring data with the annual compilation and discussion of groundwater monitoring data, and provide the information as input into the DOE required ASER. Incorporate the groundwater monitoring data from the various groundwater-monitoring reports, and provide the data as input to the groundwater Remedial Investigation (RI) Report and the Corrective Measure Study Report (CMS) that will be submitted to the DTSC in 2020. All three parties (DOE, NASA, & Boeing) are required to submit one comprehensive RI report and separate CMS reports. The RI and CMS reports will be submitted to the DTSC per the 2007 Consent Order, through a compilation of each party's separate investigations. The Contractor will be required to complete the groundwater annual report, complete the DOE section for the RI, and a separate CMS report.

Waste Management and Disposition

The desired outcome is to manage the waste program and facilities in accordance with DOE directives, and the 2010 DTSC AOC. Perform all waste handling at RCRA-permitted facilities including storage, treatment, packaging, transportation, and off-site disposal of all waste types.

The desired outcome for the Waste Management and Disposition program during the period of performance includes the following:

Off-site

- Be responsible for all waste management activities, including proper characterization of
 waste relative to physical, chemical and radiological characteristics. Identify and
 coordinate with disposal sites to ensure waste disposal is in accordance with applicable
 requirements and meets the waste acceptance criteria of the waste receiving facility and
 shall notify DOE ten workdays prior to shipments. Be responsible for payment of waste
 transportation and disposal site fees.
 - a. Ensure a proper mechanism is in place to identify and locate all placarded shipments of waste, and certain other shipments within two hours.
 - b. Ensure all vehicles are road worthy, drivers properly trained, and that only U.S. citizens are brought on site at ETEC regardless of whether the waste shipment is placarded.
 - c. Use the United States Environmental Protection Agency (USEPA) Hazardous Waste Generator Identification Number for the ETEC identifying DOE as the owner of the waste, and document where such a number is required. Where the signature of the generator or shipper is required certifying waste has been properly characterized or packaged, the Contractor is to ensure a properly trained, experienced, and appointed person signs on behalf of the DOE. A copy of the Contractor appointing letter and qualifications of the individual shall be provided to the COR.
 - d. The Contractor may use existing contractual instruments between the Federal Government and waste disposal facilities (if permitted by the terms and conditions) when disposing of waste unless the Contractor can obtain more favorable cost arrangements.
- 2. Assist DOE in DOE's interface with regulatory agencies in connection with the management of all waste types present or generated at ETEC.
- 3. Perform transportation for off-site disposal of all low-level radioactive, mixed low-level radioactive and hazardous waste types generated as a result of environmental monitoring and S&M activities. All on-site operations in support of off-site disposal shall comply with all applicable federal and state requirements and ETEC permits. Waste disposal shall comply with all applicable DOE, Department of Transportation (DOT), and disposal site waste acceptance requirements. In general, disposal operations include, but are not limited to, the following:
 - a. Conduct verification sampling for quality control purposes and repackaging of waste as needed in order to meet DOT and the disposal sites' packaging criteria. Quality control responsibilities may require:
 - i. Ensuring container integrity and verification of radiological contents
 - ii. Assessing shipment, staging and preparation of manifests and bills of lading for waste shipments
 - iii. Performing vehicle safety inspections
 - iv. Assessing/auditing disposal tracking and database management
- 4. Ship all low-level radioactive and mixed low-level radioactive waste to a properly permitted and licensed disposal facility based upon the waste acceptance criteria of that facility.

- 5. Prepare an exemption request and receive DOE approval for use of a non-DOE facility for disposal of low-level radioactive and mixed low-level radioactive waste in compliance with DOE O. 435.1 *Radioactive Waste Management*, and if applicable, and DOE O 458.1 Chg 3 (Admin Chg), *Radiation Protection of the Public and the Environment*, Authorized Limits approval documentation.
 - a. Comply with the requirements of the DOE/ETEC Transportation Plan.

On-site

- 1. Perform waste storage activities required at the site for waste generated as a result of environmental monitoring. These activities include, but are not limited to the following:
 - a. Waste characterization and classification
 - b. Safety and health oversight including radiation monitoring
 - c. Regular inspections of storage facilities
 - d. On-site transportation of waste to the storage facility
 - e. Maintaining logs, waste inventory and tracking system
 - f. Storage facility maintenance
 - g. Preparing procedures and reports
 - h. Contingency and spill control
- 2. Maintain safe and compliant storage of all low-level radioactive, mixed low-level radioactive and hazardous waste types generated as a result of environmental remediation and monitoring activities.
- 3. Store all low-level radioactive and mixed low-level radioactive waste and radioactive material at a secure location. These wastes and materials shall be segregated, stored, and inspected in accordance with applicable DOE directives, State of California DTSC regulatory requirements, and RCRA rules and/or Federal Facilities Compliance Act (FFCAct) as required for mixed waste.
- 4. Manage wastewater generated as a result of environmental monitoring, S&M activities and groundwater well purging activities.
 - a. Such wastewater shall not be discharges to the ground. Perform treatment, as required, of the generated wastewater prior to final packaging and transportation for off-site disposal. Wastewater treatment activities shall conform to the Contractor's Waste Management Program Plan and the RCRA Part A permit. Low-level radioactive and mixed low-level radioactive wastewater treatment and equipment decontamination shall be performed at the RMHF complex. In general the wastewater treatment operations shall include, but are not limited to:
 - i. Internal inspections to meet permit requirements
 - ii. Environmental support and oversight
 - iii. Quality assurance support and oversight
 - iv. Preparation of written procedures required for treatment operations
 - v. Maintenance of treatment facilities
 - vi. Stabilization as allowed by RMHF Part A Permit

- 5. Provide a waste minimization management system including, but not limited to, the following:
 - a. Pollution prevention activities related to waste operations, S&M activities, and environmental monitoring for the purpose of identifying opportunities for minimizing the amount and/or toxicity of wastes generated or projected to be generated.
 - b. Preparation of all waste minimization reports including the Annual Waste Generation Report and the Affirmative Procurement reports, in accordance with RCRA regulations and DOE O. 435.1 *Radioactive Waste Management*.

Deactivation and Decommissioning

The desired outcome is to perform the overall management of the Deactivation and Decommissioning (D&D) program at ETEC. All D&D activities shall be conducted through an integrated approach with soil and water remediation, and waste management requirements in accordance with established regulatory interaction protocols. D&D activities, must consider historic properties and historic preservation requirements. Completion of D&D activities shall be consistent with all provisions of the DTSC AOC, and the National Environmental Policy Act (NEPA) Final EIS (FEIS) Record of Decision (ROD) and the California Environmental Quality Act (CEQA) analysis, enabling transfer of areas to S&M and/or remediation.

The desired outcome for the Deactivation and Decommissioning program during the period of performance includes the following:

Demolition

Demolition activities shall include demolition operations as developed and described in the detailed D&D plans for each TO. In addition, the following conditions shall apply:

- 1. The Contractor shall provide an archeologist and Native American monitor for all ground-disturbing activities in accordance with Section 106 of the National Historic Preservation Act.
- 2. The Contractor shall provide a biological monitor in compliance with Section 7 of the Endangered Species Act for all D&D areas. The necessary clearances for biological resources shall be performed prior to any D&D activities. Results shall be reported within the D&D plans.
- 3. Demolition shall be conducted in a manner to minimize the comingling of waste types. Demolition shall be conducted to avoid disturbance of underlying soil. Materials such as stained concrete shall be segregated for subsequent characterization and disposal.
- 4. Generation of soil shall be minimized. If removal of contaminated soil for offsite disposal is necessary as the result of site stabilization or safety concerns, soil shall be containerized and DTSC shall be consulted prior to removal. If removal of contaminated soil for offsite disposal is necessary, the Contractor shall segregate costs, and shall coordinate with the COR to establish a price for project impacts relating to the management of contaminated soil.
- 5. Explosive demolition techniques shall not be used.

- 6. Below-grade vault removal may require soil excavation to provide access and maintain setback requirements for safe excavation. Excavated soils shall be stockpiled and used only to backfill the excavation from which they came.
- 7. The Contractor shall perform the following additional D&D activities for the Sodium Pump Test Facility (includes buildings 4462 and 4463):
 - Remove the exterior cables, instrumentation, auxiliary gas and fluid lines, component insulation, and heater elements that cover or attach to the sodium loop subsystems;
 - b. Selectively dismantle auxiliary systems components to provide clearance and a working area;
 - c. Remove sodium pipe and components in sections sized so it can be safely maneuvered; and,
 - d. Remove all sodium and sodium compounds, clean all sodium-containing components and recycle metal scrap and sodium hydroxide to the extent practical.
- 8. The Contractor shall use best management practices during D&D activities to disturb as little as possible of the underlying soil. The Contractor shall ensure that stockpiled soil is properly covered and appropriate dust control measures are employed to limit airborne releases.
- 9. The Contractor shall employ dust control and dust protection measures when the generation of dust resulting from demolition activities must be mitigated. Water used for dust suppression shall be contained within the D&D work areas.
- 10. The Contractor shall supply sufficient field oversight to maintain worker safety, radiological protections and procedures, storm water controls, and efficient project implementation.
- 11. All demolition activities shall be performed utilizing qualified U.S. Occupational Safety and Health Administration (OSHA) Hazardous Waste Operations (HAZWOPER), and radiation trained (for demolition of radiological buildings) Contractor personnel.
- 12. When performing demolition activities that expose soil, the Contractor shall observe the excavation to determine if there is the potential for previously undocumented releases of hazardous substances to have occurred. Indications of previously undocumented releases could include stained, discolored, wet, or saturated soils; odors; or the discovery of previously unknown features such as tanks or sumps that could indicate past chemical use. If such features are discovered, the Contractor shall pause work in the affected area, notify DOE, and propose a path forward to evaluate the area further and resume work.
- 13. In such situations, the Contractor shall take necessary actions to minimize health and environmental impacts of the suspected contamination, and to minimize the generation of hazardous or mixed wastes. Should these situations occur, the Contractor shall also segregate costs associated with the presence of previously undocumented releases of hazardous substances, and shall coordinate with the COR to establish a price for project impacts relating to the presence of the previously undocumented release.
- 14. The Contractor shall pause work in the affected area and notify DOE if it encounters previously unknown features, the removal of which would result in excavation or soil disturbance to a depth greater than three feet below ground surface. If such features are discovered, the Contractor shall propose a path forward to evaluate the area further, assess the amount of excavation that would be required, and resume work.

- 15. Should these situations occur, the Contractor shall also segregate costs associated with the presence of previously unknown features, and shall coordinate with the COR to establish a price for project impacts relating to the presence of the previously unknown features.
- 16. In the event that an undocumented (i.e., not identified or discovered previously) underground storage tank (UST) is discovered during demolition, the Contractor shall cease work in the vicinity immediately and notify DOE. The Contractor shall propose a path forward to evaluate the area further and resume work. However, the discovery shall remain undisturbed until an investigation has been performed and a course of action is developed and share with DTSC. Should this situation occur, the Contractor shall segregate costs associated with the discovery of the UST, and shall coordinate with the COR to establish a price for project impacts relating to the presence of the UST.

Management of Demolition Materials and Waste Disposal

The Contractor shall perform the necessary activities for management of demolition materials and waste disposal in accordance with the Contractor's TO specific D&D plans. In addition, the following activities shall be performed:

The Contractor shall modify the Waste Management Plan to include demolition waste and submit to DOE for approval 90 days prior to commencement of D&D activities.

- 1. The Contractor shall ship all radioactive waste to a properly permitted and licensed disposal facility based upon the waste acceptance criteria of that facility. Prior to use of a non-DOE waste treatment and/or disposal facility, the Contractor shall prepare an exemption request and receive DOE approval for use of a non-DOE facility for disposal of radioactive waste in compliance with DOE O. 435.1 *Radioactive Waste Management*, and if applicable, DOE O 458.1 Chg 3 (Admin Chg), *Radiation Protection of the Public and the Environment*, Authorized Limits approval documentation.
- 2. Waste shall be generated, characterized, and packaged per specific waste handling procedures that provide the requirements for loading the waste into containers, recording its description, and completing the waste inventory documentation. All operations shall be performed by trained personnel and in accordance with safety and quality assurance requirements. Containers may be stored at the job site, or be placed in storage at a limited access storage area, pending shipment. Waste may be transferred to the RMHF for size reduction, additional characterization, and storage prior to shipment.
- 3. There shall be no on-site disposal of demolition waste.
- 4. Hazardous wastes shall be managed in accordance with Title 40 of the Code of Federal Regulations, Title 22 of the California Code of Regulations, and Chapter 6.5 of Division 20 of the California Health and Safety Code. All hazardous wastes shall be accumulated in closed containers (including lined roll-off bins), tanks, or lined trucks/trailers that prevent the release of any material. Hazardous or potentially hazardous waste shall not be managed using practices such as stockpiling, where the wastes are accumulated outside of lined and closed containers.
- 5. Segregation, waste compatibility, container labeling, accumulation times, and all other management requirements for hazardous wastes stated in local, state, and federal regulations identified above shall be observed for all wastes as applicable.

- 6. Once roll-off bins containing hazardous wastes have been filled at the demolition site, they shall be transported only to a staging area that has been designated for that purpose. In all cases, bins containing hazardous wastes shall be transported for offsite disposal within the prescribed 90-day accumulation period as required by RCRA permit.
- 7. Like all containers of hazardous wastes, roll-off bins shall be kept securely closed, except when wastes are actually being transferred into or out of them.
- 8. Hazardous wastes that comply with the requirements for Satellite Accumulation Areas as stated in State and Federal regulations may be maintained at the demolition site.
- 9. Demolition materials determined to be non-hazardous waste and non-radiological material shall be stored, packaged, shipped, and disposed as solid waste in accordance with local, state, and federal regulations.
- 10. Demolition materials shall be recycled whenever possible and practical in compliance with Ventura County's Ordinance 4357 for construction/demolition debris. DTSC shall be consulted prior to recycling of materials. No materials shall be recycled from radiological facilities.
- 11. All oil-filled transformers shall undergo verification for the presence of PCBs.
- 12. All recycling of demolition material shall be carried out in accordance with Chapter 6.5, Article 4 of Division 20 of the California Health and Safety Code and Chapters 11 and 16, Division 4.5 of Title 22 of the California Code of Regulations.
- 13. During demolition, recoverable metal shall be segregated from other demolition wastes and transported to a metal recycling facility. No materials shall be recycled from radiological facilities.
- 14. The Contractor shall ensure compliance with the 2010 AOC for waste disposition as noted in the Agreement In Principle at page 3.
- 15. The Contractor shall dispose of all debris as low-level radioactive waste or mixed low-level radioactive waste or other out-of-state disposition pathway specifically approved by DOE (except for debris from Building 4019, which has been declared free of contamination).
- 16. The Contractor shall ensure compliance with the NEPA EIS and ROD, and the CEQA analysis for transportation of waste off-site.
- 17. The dose rate on both sides of each demolition related, debris-filled truck/roll-off from former radiological buildings shall be monitored and recorded before it leaves the site.
- 18. No waste from ETEC shall be disposed at the Kettleman Hills disposal site in California.
- 19. Transportation off-site is controlled to cooperate with local homeowners adjacent to the site and along the access road, Woolsey Canyon Road. The Contractor shall comply with the requirements of the DOE/ETEC Transportation Plan.

Post-Demolition Activities

The following post-demolition activities shall be performed:

- 1. Completion of D&D activities shall be consistent with all provisions of the AOC between the State of California and DOE dated 6 December 2010, the NEPA EIS ROD, and the CEQA analysis.
- 2. Excavations less than three feet deep shall be re-graded using adjacent soils to restore site surface and ensure proper drainage. Excavated soils shall be stockpiled and used only to backfill the excavation from which they came. The Contractor may use material from an off-site location to backfill deeper excavations. However, the Contractor shall only use

- backfill material from sources approved by DOE and DTSC. Deeper excavations shall be backfilled to the pre-demolition surface, while ensuring proper drainage.
- 3. DTSC's Green Remediation Initiative may be considered as D&D activities are completed and backfill is performed.
- 4. The Contractor shall prepare a D&D post-demolition report. This report shall include post-demolition maps, field reports, waste characterization information, photographic documentation, and complete copies of the debris/waste documents for recycling and disposal. The D&D post-demolition report for each D&D TO will be due within 45 days of completion of the D&D work.